

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	38	nitrocellulose with percent\$4 with (nitrogen or "N") with ("13.15" or "13.2" or "13.25" or high)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 21:15
L2	154	nitrocellulose with (nitrogen or "N") with ("13.15" or "13.2" or "13.25" or high)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 21:15
L3	74	nitrocellulose with (nitrogen or "N") with ("13.15" or "13.2" or "13.25" or high) and plasticizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 21:15
L4	19	nitrocellulose with (nitrogen or "N") with ("13.15" or "13.2" or "13.25" or high) and plasticizer same (citrate or adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 21:16
L5	21	nitrocellulose with (nitrogen or "N") with ("13.15" or "13.2" or "13.25" or high) and plasticizer same (citrate or adipate or ATEC)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 21:16
L6	26	(US-20040208884-\$ or US-20040025990-\$ or US-20040016479-\$).did. or (US-3676533-\$ or US-4029529-\$ or US-3451883-\$ or US-3364086-\$ or US-5187320-\$ or US-3711343-\$ or US-5348596-\$ or US-5623116-\$ or US-5218166-\$ or US-6368431-\$ or US-3943017-\$ or US-5487851-\$ or US-5565150-\$ or US-4025370-\$ or US-5798481-\$ or US-5938235-\$ or US-6170868-\$ or US-6120058-\$ or US-3711344-\$ or US-4202713-\$). did. or (US-3732130-\$ or US-3732131-\$ or US-2967098-\$). did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 21:24
S3	2167	DNT or dinitrotoluene	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 07:52
S4	107	S3 with (free or absent or substitut\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:08
S5	1592	plasticizer and propellant and (citrate or adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:09

## EAST Search History

S6	2	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:31
S7	11	("3328217" "3364086" "3447983" "3451883" "3711343" "4029529" "4525313" "5187320" "5218166" "5348596" "5919274").PN.	US-PGPUB; USPAT	OR	ON	2005/09/16 05:38
S8	10	(US-20040208884-\$ or US-20040025990-\$ or US-20040016479-\$).did. or (US-5218166-\$ or US-5348596-\$ or US-4029529-\$ or US-3711343-\$ or US-3364086-\$ or US-3451883-\$ or US-5187320-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/29 21:34
S9	1	S8 and (DNT or dinitrotoluene)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:35
S10	0	09/673230	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 21:36
S11	478	energetic near2 plasticizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:42
S12	424	energetic adj plasticizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/29 21:42
S13	10	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3364086-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-5187320-\$ or US-5218166-\$ or US-5348596-\$).did.	US-PGPUB; USPAT	OR	ON	2005/09/16 05:36
S14	3879	plasticizer same nitrocellulose	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/16 05:38
S15	65	plasticizer same nitrocellulose and "13.2"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 14:00

## EAST Search History

S16	2	(DNT or dinitrotoluene) and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 05:42
S17	6	single near3 base\$2 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 05:43
S18	4	single near3 base\$2 near5 propellant and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 06:00
S19	79	high with nitrogen with nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 06:00
S20	136	plasticiz\$4 same nitrocellulose same (citrate or adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 06:01
S21	2	S19 and S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 06:01
S22	42	lebovitz.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/16 06:28
S23	50	("6607618" "5682009" "5487851" "4267132" "5510062" "5524544" "4909868" "4263069" "4525313" "5608184" "4315785" "4386978" "4299636" "4420350" "5218166" "4298411" "5013856" "5844165" "5955629" "4038115" "4082583" "4298552" "4478656" "5205983" "5387295" "5652409" "6692655" "4886560" "5254186" "5385619" "5186871" "5251531" "4381958" "4126497" "4288262" "6241833" "3844856" "5372664" "4285743" "4615270" "4844845" "5841058" "6085630" "5482581" "5520757" "5763696" "3617400" "3861970" "3855373" "3808061").pn.	US-PGPUB; USPAT	OR	ON	2005/09/19 07:56
S24	12	S23 and single same base\$2 same propellant and plasticizer	US-PGPUB; USPAT	OR	ON	2005/09/19 08:00
S25	12	S24 and nitrocellulose	US-PGPUB; USPAT	OR	ON	2005/09/19 08:00

## EAST Search History

S26	4	S25 and plasticizer same (citrate or adipate)	US-PGPUB; USPAT	OR	ON	2005/09/19 08:01
S27	350	single same base\$2 same propellant and plasticizer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:00
S28	178	S27 and nitrocellulose	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:00
S29	45	S28 and plasticizer same (citrate or adipate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:01
S30	27	S29 and plasticizer same (nonenergetic or energetic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:19
S31	1	plasticizer with (nonenergetic or non adj energetic or inert or nonexplosive or non adj explosive or low adj energy) same nitrocellulose with (high near3 nitrogen or "13.2")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:21
S32	198	plasticizer with (nonenergetic or non adj energetic or inert or nonexplosive or non adj explosive or low adj energy) same nitrocellulose	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 10:18
S33	0	S32 and (DNT adj free or dinitrotoluene adj free)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:31
S34	18	S32 and (DNT or dinitrotoluene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:22
S35	26	S32 and (single near5 base\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:52

## EAST Search History

S36	13	S32 and (single near5 base\$2) near5 propellant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:32
S37	13	S32 and (single near5 base\$2) with propellant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:32
S38	7	S35 and ("13.2" or "13.1" or "13.25" or "13.3" or "13.15" or high adj ("N" or nitrogen))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 08:54
S39	17	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3364086-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-5187320-\$ or US-5218166-\$ or US-5348596-\$ or US-4025370-\$ or US-3943017-\$ or US-3711344-\$ or US-3676533-\$).did. or (US-3732131-\$ or US-3732130-\$ or US-2967098-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/19 10:18
S40	8	diethylphthalate with (nonenergetic or non adj energetic or inert or nonexplosive or non adj explosive or low adj energy) with plasticizer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 10:20
S41	5	diphenylamine with (nonenergetic or non adj energetic or inert or nonexplosive or non adj explosive or low adj energy) with plasticizer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 10:20
S42	6	diethylphthalate with (nonenergetic or non adj energetic or inert or nonexplosive or non adj explosive or low adj energy) with plasticizer with (citrate or adipate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/19 11:03
S43	3	("3711343").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/19 15:48
S44	0	("diisobutyladjadipatewithplasticizer").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/09/19 15:48

## EAST Search History

S45	370	diisobutyl adj adipate with plasticizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:49
S46	3978	citrate with plasticizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:49
S47	175	S46 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:51
S48	15	S47 and citrate adj triethyl	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:49
S49	0	S48 and nitrocelulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:50
S50	0	S48 and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:50
S51	11	S47 and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:52
S52	22	S45 and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/09/19 15:52
S53	17	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3364086-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-5187320-\$ or US-5218166-\$ or US-5348596-\$ or US-4025370-\$ or US-3943017-\$ or US-3711344-\$ or US-3676533-\$).did. or (US-3732131-\$ or US-3732130-\$ or US-2967098-\$).did.	US-PGPUB; USPAT; USOOCR	OR	ON	2005/09/19 15:52
S54	0	09/673230	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 21:36

## EAST Search History

S55	17	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3943017-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-4025370-\$ or US-5218166-\$ or US-5348596-\$ or US-3364086-\$ or US-5187320-\$ or US-3676533-\$ or US-3711344-\$).did. or (US-3732131-\$ or US-2967098-\$ or US-3732130-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 23:23
S56	258	(149/96).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/23 23:24
S57	0	("2andacetyltriethylnear2citrate"). PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/23 23:25
S58	0	S56 and acetyltriethyl near2 citrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:25
S59	1	plasticizer same acetyltriethyl near2 citrate and propellant and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:28
S60	20	plasticizer same (acetyltriethyl adj citrate or ATEC or acetyl adj triethyl adj citrate) and propellant and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:46
S61	20	S60 and (citrate or ATEC)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:39
S62	0	S60 and (citrate or ATEC) with preferred	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:39
S63	0	S60 and (citrate or ATEC) same prefer\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:40
S64	0	S61 and (citrate or ATEC) same prefer\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:40

## EAST Search History

S65	0	S56 and (citrate or ATEC) same prefer\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:40
S66	0	S55 and plasticizer same (acetyltriethyl adj citrate or ATEC or acetyl adj triethyl adj citrate or acetyltriethylcitrate) and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:45
S67	1	S55 and (acetyltriethyl adj citrate or ATEC or acetyl adj triethyl adj citrate or acetyltriethylcitrate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:46
S68	109	plasticizer same (acetyltriethyl adj citrate or ATEC or acetyl adj triethyl adj citrate or acetyltriethylcitrate) and nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:47
S69	7	plasticizer same (acetyltriethyl adj citrate or ATEC or acetyl adj triethyl adj citrate or acetyltriethylcitrate) same nitrocellulose	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:48
S70	102	S68 not S69	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/02/23 23:48
S71	24	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3943017-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-4025370-\$ or US-5218166-\$ or US-5348596-\$ or US-3364086-\$ or US-5187320-\$ or US-3676533-\$ or US-3711344-\$ or US-6170868-\$ or US-5623116-\$ or US-6368431-\$ or US-6120058-\$ or US-5938235-\$ or US-5565150-\$ or US-5487851-\$). did. or (US-3732131-\$ or US-2967098-\$ or US-3732130-\$). did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 00:47
S72	13	("3378611"   "3715414"   "3894894"   "4386978"   "5325782"   "5482581"   "5487851"   "5500060"   "5520756"   "5567912"   "5798481").PN. OR ("6241833"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 01:33

## EAST Search History

S73	25	(US-20040016479-\$ or US-20040025990-\$ or US-20040208884-\$).did. or (US-3943017-\$ or US-3451883-\$ or US-3711343-\$ or US-4029529-\$ or US-4025370-\$ or US-5218166-\$ or US-5348596-\$ or US-3364086-\$ or US-5187320-\$ or US-3676533-\$ or US-3711344-\$ or US-6170868-\$ or US-5623116-\$ or US-6368431-\$ or US-6120058-\$ or US-5938235-\$ or US-5565150-\$ or US-5487851-\$ or US-5798481-\$).did. or (US-3732131-\$ or US-2967098-\$ or US-3732130-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/24 01:34
S76	4	("4015650").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/24 18:08
S77	0	plasticizer same nitrocellulose same "13.2" near5 ("same" or equal or greater or more or at adj least)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 14:03
S78	101	plasticizer same nitrocellulose same ("same" or equal or greater or more or at adj least) near5 ("N" or nitrogen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 14:53
S79	1	plasticizer same nitrocellulose same ("same" or equal or greater or more or at adj least) near5 ("N" or nitrogen) and single near3 base\$2 with propellant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 15:51
S80	16	plasticizer same nitrocellulose same (content or percent\$5 OR CONTAIN\$4) near5 ("N" or nitrogen) and single near3 base\$2 with propellant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 16:05
S81	6	plasticizer same nitrocellulose same (content or percent\$5 OR CONTAIN\$4) near5 ("N" or nitrogen) and single near3 base\$2 with propellant AND (CITRATE OR ADIPATE)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/23 16:17
S82	6	(("3711343") or ("4029529") or ("3451883") or ("5187320")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/23 18:36

## EAST Search History

S83	1	non adj energetic with plasticizer and plasticizer with (acetyltriethyl near2 citrate or acetyltri-n-butyl near2 citrate or triethyl near2 citrate or tributyl near2 citrate or diisooctyl near2 adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 18:50
S84	21	("3214305"   "3904674"   "3923564"   "4291171"   "4400479"   "4804693"   "4929291"   "5126424"   "5695216"   "5844165"   "5852120"   "5913537"   "6059906"   "6120058"   "6142518"   "6170868"   "6214137"   "6230452"   "6368431"   "RE36296").PN. OR ("6689236").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 18:38
S85	3	S84 and (acetyltriethyl near2 citrate or acetyltri-n-butyl near2 citrate or triethyl near2 citrate or tributyl near2 citrate or diisooctyl near2 adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 18:39
S86	111	nitrocellulose with percent near5 (nitrogen or "N")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 18:40
S87	11	nitrocellulose with percent\$4 near5 (nitrogen or "N") near5 ("13.15" or "13.2" or "13.25")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 20:21
S88	15	nitrocellulose with percent\$4 near5 (nitrogen or "N") near5 ("13.15" or "13.2" or "13.25" or high)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 20:21
S89	4	S88 not S87	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 18:44
S90	20	(non adj energetic or nonenergetic) near5 plasticizer and plasticizer with (citrate or adipate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 19:00
S91	4	(non adj energetic or nonenergetic) near5 plasticizer and plasticizer with ATEC	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/07/17 19:01